

Title (en)  
ROBOT AND CONTROL METHOD THEREOF

Title (de)  
ROBOTER UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)  
ROBOT ET SON PROCÉDÉ DE COMMANDE

Publication  
**EP 4151373 A4 20231108 (EN)**

Application  
**EP 21856133 A 20210805**

Priority  
• KR 20200100228 A 20200811  
• KR 2021010331 W 20210805

Abstract (en)  
[origin: EP4151373A1] A robot is disclosed. The robot according to the present disclosure comprises: a light-emitting unit; a camera; and a processor, wherein the processor may obtain first information about an object by using the camera while the light-emitting unit outputs light for obtaining distance information about the object, obtain second information about the object by using the camera while the light-emitting unit does not output light, obtain third information about the object on the basis of the first information and the second information, obtain information about an external light area on the basis of the first information, the second information, and the third information, and generate a driving path of the robot on the basis of the information about the external light area.

IPC 8 full level  
**B25J 9/16** (2006.01); **B25J 19/02** (2006.01); **G01S 7/48** (2006.01); **G01S 17/89** (2020.01); **G01S 17/931** (2020.01); **G05D 1/02** (2020.01)

CPC (source: EP KR US)  
**B25J 9/161** (2013.01 - KR); **B25J 9/1664** (2013.01 - EP KR); **B25J 9/1697** (2013.01 - EP KR); **B25J 19/023** (2013.01 - KR); **G01S 7/4808** (2013.01 - EP); **G01S 17/89** (2013.01 - EP); **G01S 17/931** (2020.01 - EP); **G05D 1/0246** (2024.01 - US); **G05D 1/0248** (2024.01 - EP)

Citation (search report)  
• [YA] KR 20150127937 A 20151118 - EVERYBOT INC [KR]  
• [YA] JP 2003185412 A 20030703 - TOSHIBA CORP  
• [A] US 2020122344 A1 20200423 - LEE CHANGHYEON [KR], et al  
• [A] WO 2019044571 A1 20190307 - SONY CORP [JP]  
• [A] CN 211012988 U 20200714 - ZHUHAI AMICRO SEMICONDUCTOR CO LTD  
• See also references of WO 2022035127A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4151373 A1 20230322**; **EP 4151373 A4 20231108**; CN 116096539 A 20230509; KR 20220019930 A 20220218; US 2023185308 A1 20230615; WO 2022035127 A1 20220217

DOCDB simple family (application)  
**EP 21856133 A 20210805**; CN 202180056307 A 20210805; KR 20200100228 A 20200811; KR 2021010331 W 20210805; US 202318108390 A 20230210